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DATE MAILED: 06/02/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

23455 7590 0602/2008
EXXONMOBIL CHEMICAL COMPANY
5200 BAYWAY DRIVE
P.O. BOX 2149
BAYTOWN TX 77522-2149

EXAMINER				
BOYER, RANDY				
ART UNIT	PAPER NUMBER			
1797				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,142	03/29/2004	Cor F. van Egmond	2004B023	3237

TITLE OF INVENTION: HEAT RECOVERY TECHNIQUE FOR CATALYST REGENERATOR FLUE GAS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmittin ig the Patent, nerwise in Blo	advance o	THE BLE and PUBLICATI rders and notification of n a) specifying a new corres	ON PEE (if requi- naintenance fees w pondence address;	red). 1 ill be and/or	mailed to the current (b) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note Fee(pape baye	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
5200 BAYWAY P.O. BOX 2149			,		Cer	tificate	of Mailing or Trans	
BAYTOWN, TX	K 77522-2149							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/812,142	03/29/2004			Cor F. van Egmond			2004B023	3237
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APPLN, TYPE	SMALL ENTITY	ISSUE FE		PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$144	Ю	\$300	\$0		\$1740	09/02/2008
EXAM	INER	ART U	NIT	CLASS-SUBCLASS				
BOYER,		179		208-159000				
L Change of correspondence address or indication of "Fee Address" (37 CFR 1.83). Change of correspondence address (or Change of Correspondence Address (or Change of Correspondence Address form PTOSB/122) attached. Tee Address' indication (or 'Fee Address' Indication form PTOSB/127 for US-02 or more recent) attached. Use of a Customer Number is required.			oondence rm Customer	2. For printing on the patent front page, list (1) the names to up to 3 registered patent attorneys or agents OR, alternatively. (2) the name of a single firm thousing as a member a registered attorney or agent) and the names of up to 2. registered patent attorneys or agents. If no name is 3. listed, no name will be printed.				
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Com GNEE	ified below, n bletion of this i	o assignee form is NO	(B) RESIDENCE: (CITY	atent. If an assignassignment. and STATE OR C	OUNT	'RY)	ocument has been filed for
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount j	permitted)	4	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.	shown above) ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	is. See 37 CFF		☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not tes Patent and	be accepte Trademark	d from anyone other than the Office.	he applicant; a regi	stered :	attorney or agent; or th	ne assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this bu (irginia 22313-1450. DC (13-1450.	FR 1.311. The U.S.C. 122 ar USPTO. Tim rden, should b O NOT SEND	information of 37 CFR will vary e sent to the FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	he publ ninutes mment Traden	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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5200 BAYWAY I	DRIVE		ART UNIT	PAPER NUMBER
P.O. BOX 2149 BAYTOWN, TX 77522-2149			1797 DATE MAILED: 06/02/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 746 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 746 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)
10/812,142	VAN EGMOND ET AL.
Examiner	Art Unit
RANDY BOYER	1797

— The MAILING DATE of this communication appears on the All claims being allowable, PROSECUTION ON THE MERTIS IS (OR Reherewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. To the Office or upon petition by the applicant. See 37 CFR 1.313 and MPI.	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initia
1. X This communication is responsive to Applicant's response filed 26 M	March 2008.
2. The allowed claim(s) is/are 1,3-14,17-20,26-31,33-37 and 40-46.	
3.	ceived. beived in Application No have been received in this national stage application from the munication to file a reply complying with the requirements his application. ethe attached EXAMINER'S AMENDMENT or NOTICE OF (s) why the oath or declaration is deficient.
(a) including changes required by the Notice of Draftsperson's Pate	
1) hereto or 2) to Paper No./Mail Date	
(b) ☐ including changes required by the attached Examiner's Amenda Paper No./Mail Date	nent / Comment or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) she each sheet. Replacement sheet(s) should be labeled as such in the header	
 DEPOSIT OF and/or INFORMATION about the deposit of BIG attached Examiner's comment regarding REQUIREMENT FOR THE 	
Attachment(s)	
1. Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application
Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (PTO-413), Paper No./Mail Date
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Statement of Reasons for Allowance
	9. ☐ Other

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DETAILED ACTION

Response to Amendment

- Examiner acknowledges Applicant's response filed 26 March 2008 containing amendments to the claims and remarks.
- 2. Claims 1, 3-14, 17-20, 26-31, 33-37, and 40-46 are pending.
- Examiner acknowledges that Applicant's arguments are sufficient to overcome the previous rejection of claim 1 under 35 U.S.C. 112, second paragraph.
- 4. The previous rejections of claims 1, 3-14, 17-20, 26-31, 33-37, and 40-46 under 35 U.S.C. 102(b) and/or 35 U.S.C. 103(a) are withdrawn in view of Applicant's amendments to the claims. Consequently, claims 1, 3-14, 17-20, 26-31, 33-37, and 40-46 are allowed.

Allowable Subject Matter

- 5. Claims 1, 3-14, 17-20, 26-31, 33-37, and 40-46 are allowed.
- The following is Examiner's statement of reasons for allowance:

With respect to Applicant's independent claims 1 and 26 (from which all other claims depend), neither Jörgensen (US 4,509,326) nor Haddad (US 5,043,517) discloses or suggests a process for recovering heat from a high temperature effluent stream from a catalyst regenerator, wherein the process comprises in part: producing a "partially cooled effluent stream [having] a temperature not greater than about 262°C"

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and a "further cooled effluent stream [having] a temperature not greater than about 127°C."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Boyer whose telephone number is (571) 272-7113. The examiner can normally be reached Monday through Friday from 10:00 A.M. to 7:00 P.M. (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn A. Caldarola, can be reached at (571) 272-1444. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RPB

/Glenn A Caldarola/

Acting SPE of Art Unit 1797